

TEAM FOUR

RARE BOOK STORE

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PRESENTATION OVERVIEW

FROM IDEA TO CONCEPT

How we selected the subject for this project

THE DRIVING FORCE

Overview of our Mission, Vision, and Goals

ARCHITECTURE DIAGRAM

High-level layout of the application

DATA MODEL

Overview of the data structure

WIREFRAMING

Initial UI design concept

ACCOMPLISHMENTS & CHALLENGES

What we're proud of and how we overcame challenges

PROJECT DEMO

Walkthrough of the application

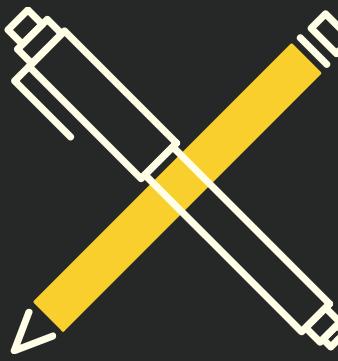
GITHUB REPOSITORIES

Links to the code

OUR TEAM

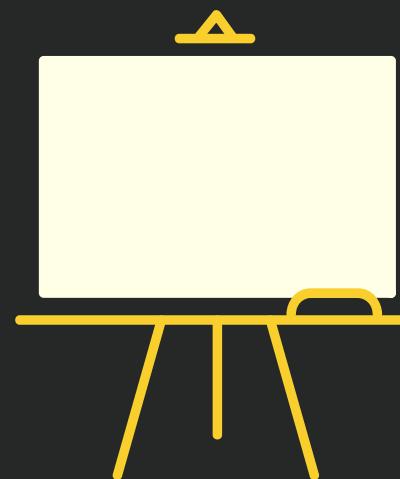
Team Member contact information

IDEA TO REALITY



INITIAL IDEAS

- Warehouse management
- ECommerce
- Library



BLENDING INTO ONE

- Taking pieces of each idea to form a more detailed and complete vision.



FINALIZED MVP

- Simple frontend
- CRUD: Customers and Books



PROBLEM

Rare Book dealers need a specialized inventory management system to match the highly specific nature of their business. Other systems may not have the ability to add specific details that a rare book may have as compared to a newly printed and mass produced book. ex. specific condition, binding type, etc.
*There are around 30 different conditions and sub-conditions when describing books.



SOLUTION

Create an application that allows the bookstore owner to enter highly specific details about the books they buy and sell, into a digital database for better record keeping.



MISSION, VISION, GOALS

MISSION

Create a maintainable and error free inventory application for a rare book dealer.

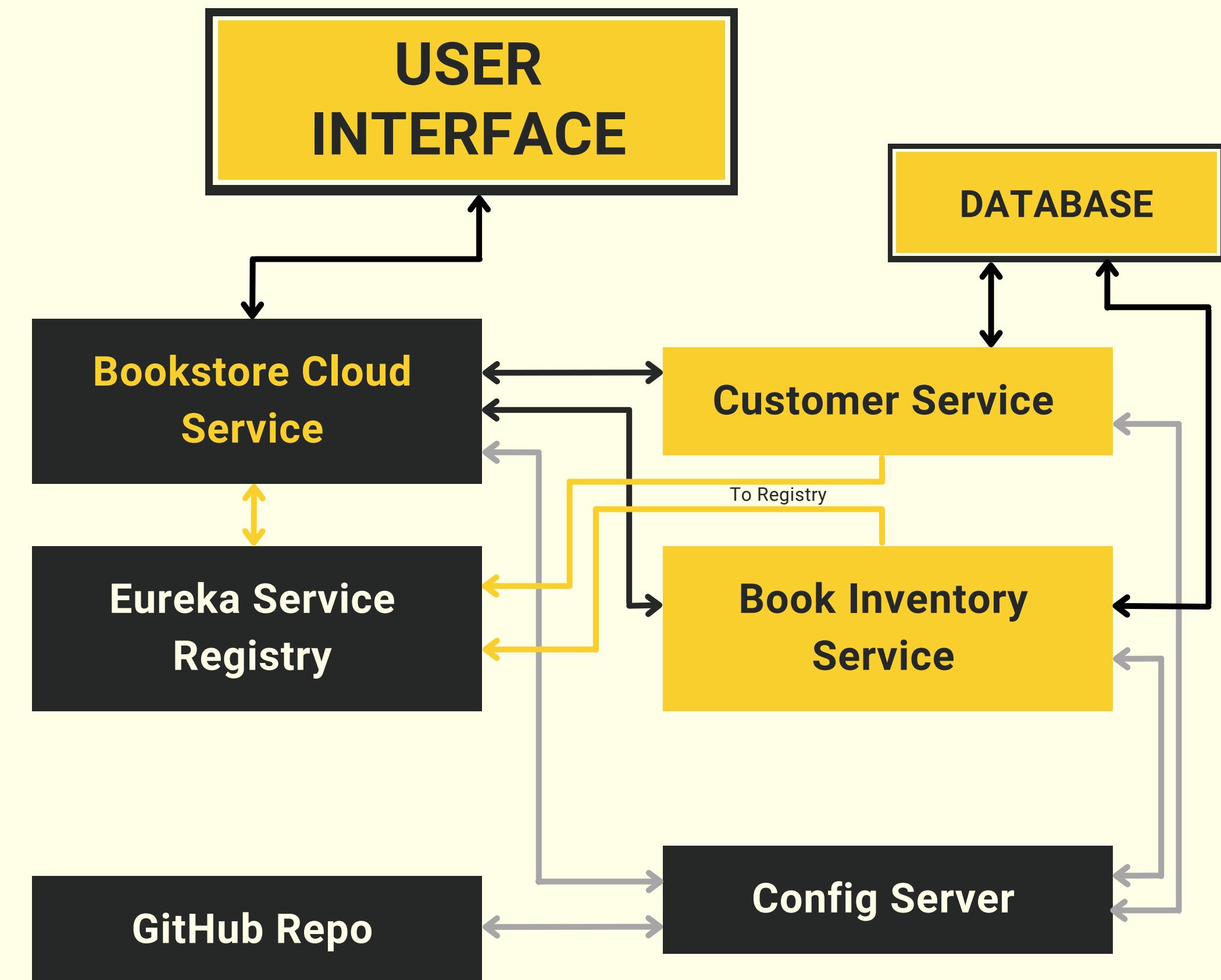
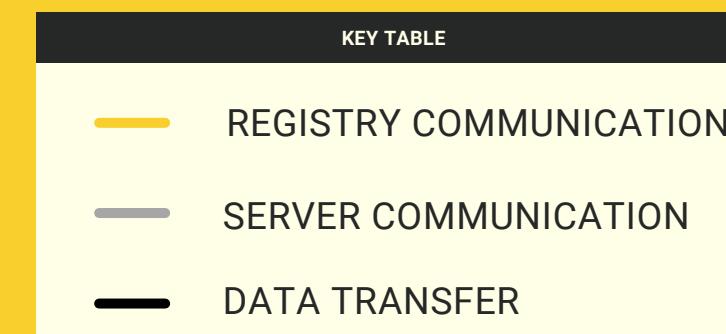
VISION

Allow the owner to easily access their custom data such as the inventory and status of their rare books to shorten the time needed to find a specific book or suggest similar books to their customers.

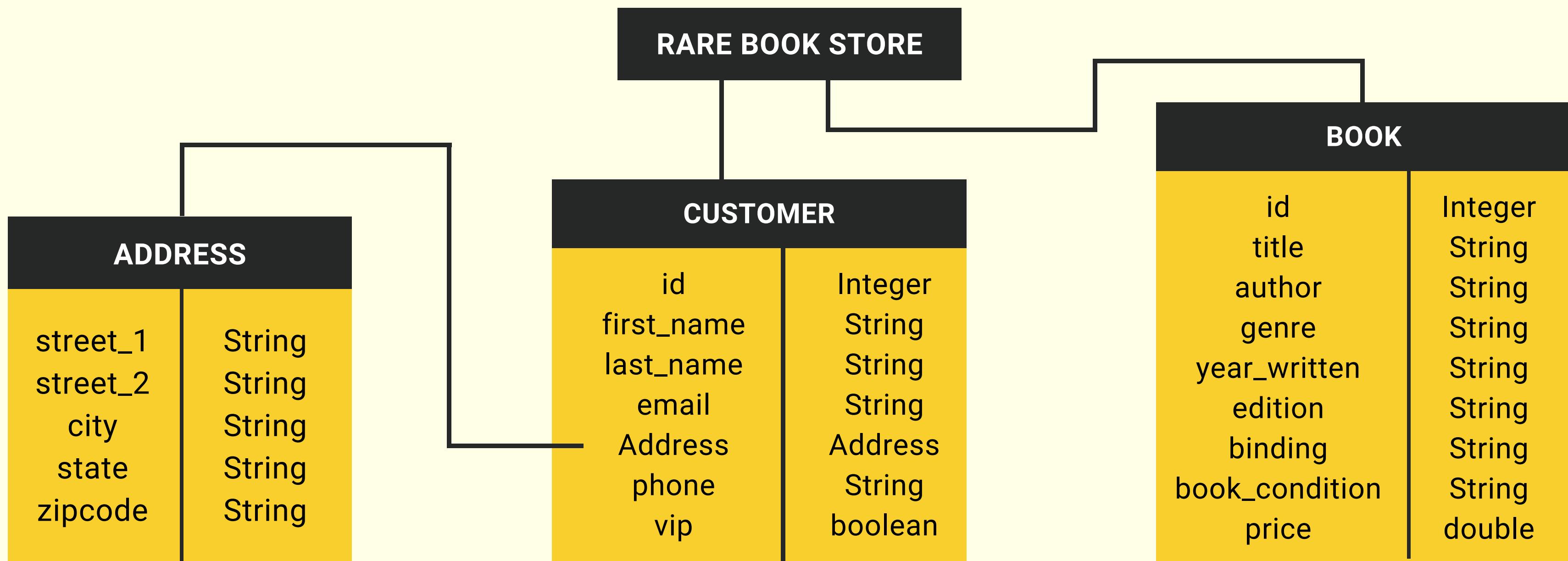
GOAL

Provide the book shop owner with a polished application that takes little time to understand and learn but provides accurate and up to date information about their available inventory.

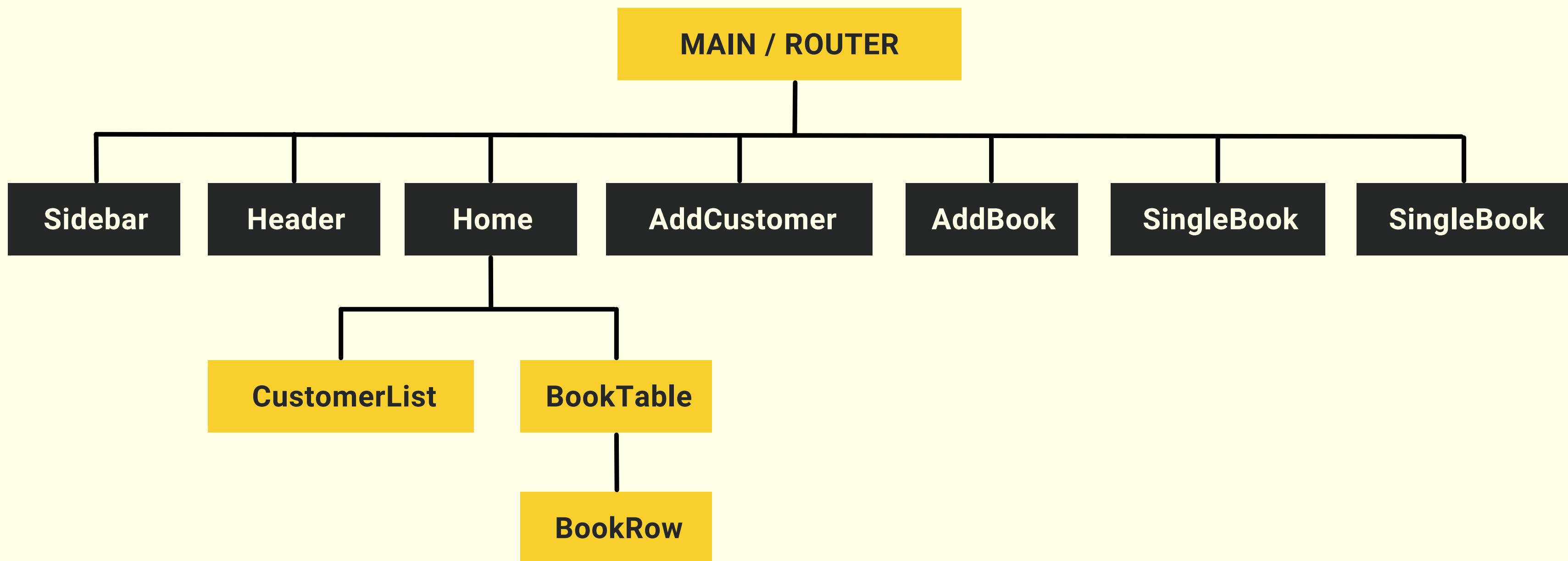
ARCHITECTURE DIAGRAM



DATA MODEL



REACT COMPONENT TREE



WIREFRAMING

The wireframe illustrates a user interface for a 'Rare Book Store'. The main header 'Rare Book Store' is positioned at the top left, with a search bar labeled 'Search (?)' to its right. A vertical sidebar on the left contains navigation links: 'Home', 'Add Book', and 'Add User'. Below these, under the heading 'Users', is a list of eight entries, each consisting of a small circular icon and the word 'user'. To the right of the sidebar is the main content area, which features a table titled 'Inventory Table' with six columns: Title, Author, Genre, Binding, Condition, and SalePrice. The table displays ten rows of book inventory data.

| Inventory Table | | | | | |
|-----------------|--------|-------|---------|-----------|-----------|
| Title | Author | Genre | Binding | Condition | SalePrice |
| book | author | genre | HC | Old | 1000 |
| book | author | genre | PB | Fair | 95 |
| book | author | genre | HC | Old | 200 |
| book | author | genre | HC | New | 120 |
| book | author | genre | PB | Good | 90 |
| book | author | genre | HC | Old | 890 |
| book | author | genre | HC | Fair | 890 |
| book | author | genre | PB | Fair | 45 |
| book | author | genre | PB | Good | 54 |
| book | author | genre | HC | Old | 890 |

WIREFRAME : BOOK

Add New Book

Home Add Book Add User

Title Author

Genre Year Published Edition

Condition Author

Sales Price

Title Author

Home Add Book Add User

 Price

Title Author

Genre Year Published Edition

Condition Author

Sales Price

WIREFRAME : CUSTOMER

[Home](#)

[Add Book](#)

[Add User](#)

Add New User

| | | |
|---|---------------------------------------|--|
| Username | Email | |
| <input type="text"/> | <input type="text"/> | |
| First Name | Last Name | |
| <input type="text"/> | <input type="text"/> | |
| address1 | address2 | |
| <input type="text"/> | <input type="text"/> | |
| City | State | Zip Code |
| <input type="text"/> | <input type="text"/> | <input type="text"/> |
| Phone | Rewards | <input type="button" value="Upload Photo..."/> |
| <input type="button" value="Add User"/> | <input type="button" value="Cancel"/> | |

ACCOMPLISHMENTS AND CHALLENGES

WHAT WE'RE PROUD OF AND
THE CHALLENGES WE FACED

ACCOMPLISHMENTS

COMPLETED MVP

Achieved desired outcome of MVP with minimal changes to initial ideas and concept

MONOLITH TO MICROSERVICES

Began as a single application.
Broken down later to align to microservice layout

UNDERSTANDING THE TECH

Acquired valuable problem solving skills.
Gained a better understanding of database communication, data transfer, and imports & dependencies

GIT VERSION CONTROL

Successfully produced the final application with NO merge conflicts or errors

CHALLENGES

DEPLOYMENT

Backend deployment and Frontend Netlify deployment was tricky

MICROSERVICE COMMUNICATION

Troubleshooting in order to get different services to communicate with eachother

TESTING

Integration testing required service to be running.
Tests fail if service isn't working properly

NULL POINTERS & VALIDATION

Route for creating a new book were producing NULL in all fields triggering validation errors while the route for an almost exact replica was working 100%

FUTURE ADDITIONS

CUSTOMER FACING UI / AUTHORIZATION

Create a customer facing UI to allow both the shop owner AND customer to view what is currently available.

BOOK REVIEWS & NOTES

- Allow customers to write reviews for the books they purchase.
- Allow owner to write notes about books they list for sale.
(how they acquired it, any other interesting anecdotes)

SERVICE EXPANSION

Give the shop owner the option to purchase additional functionality if they wish to extend their business outside of rare books to a more conventional bookstore

PROJECT DEMO



GitHub Repositories



GITHUB - BACKEND

<https://github.com/Kygandao/Rare-Book-Store>

GITHUB - FRONTEND

<https://github.com/ntjohns1/rare-book-store-frontend>

Contact Information

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GITHUB

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